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Oct. 1978

STATE



DEC 2 1978

MONTANA DEPARTMENT OF HEALTH  
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report  
of the Air Quality Bureau

MONTANA STATE LIBRARY  
980 E Lyndale Ave.  
Helena, Montana 59601

October, 1978

1. Highlights:

Most of the time in October was spent preparing for the Board of Health meeting held on October 20-21, at which time the proposed revised rules were heard. These included PSD, NSPS and NESHAPS, visible contaminants, incinerators, wood waste burners and stack heights. The hearing was held for two days.

2. Ambient Air Quality Network:

a. Standards Exceeded:

Hi-vol standards--City	Station	Date	150 ug/m <sup>3</sup> State Standard
Columbia Falls	Anders	10/5	248
		10/11	211
		10/17	245
East Helena	Hastie	10/11	201
		10/23	200
		10/5	1384
Libby	Brown	10/11	618
		10/23	571
		10/30	341
Thompson Falls	Lodge Motel	10/11	185
		10/17	200

SO <sub>2</sub>	Mill Creek	Highway Jct.	Lincoln School	C-Hill
Highest 24-hr av.	0.18	0.31	0.19	*
Highest 1-hr av.	1.32	1.42	0.80	*
No. of 1 hr. av.	39	53		*

\*Data not reduced yet because the calibration curve was not available.

NO <sub>2</sub>	Lincoln School
Highest 24-hr	0.004
Highest 1-hr	0.03

SO <sub>2</sub> (East Helena)	Microwave	East Station	Broudy
State 1-hour	2	0	0
State 24-hour	0	0	0
Federal 3-hour	0	0	0
Federal 24-hour	0	0	0

East Helena area - Kléffner Ranch  
Kennedy Park

0.58 ppm  
0.54 ppm - 3 hour standard  
0.57 ppm - 3 hour standard  
0.19 ppm - 24 hour standard  
0.58 ppm - 3 hour standard  
0.21 ppm - 24 hour standard  
0.59 ppm - 3 hour standard  
0.18 ppm - 24 hour standard



b. Air Stagnation Adivsorios:

Western Montana, October 6, 15 and 17, 1978  
Open burning restrictions were imposed eight times in October.

c. Laboratory Status

Total samples for month 499  
Total determinations for month 2894

3. Permits and Tax Credits:

a. Construction Permits, applied for:

Western Company of North America, Sidney, acid and sand storage tank  
Wickens Brothers, Fergus Co., portable gravel crusher (10 permits)  
American Chemet, East Helena, day nauta blender and appurtenances  
Cominco American, Powell Co., crushing plant  
Exxon, Billings, alkylaton unit  
Earth Builders, Petroleum Co., crusher and asphalt plant (3 permits)  
Montana Dept. of Highways, Dawson Co., portable asphalt plant  
Rehbeln Contracting, Mineral Co., asphalt drum mixer  
William Collins, Inc., Wibaux Co., asphalt concrete drum dryer plant  
Baltrusch Construction, Chouteau Co., hot mix plant  
Baltrusch Construction, Beaverhead Co., crusher  
Ennis Sand & Gravel, Madison Co., crusher  
Zook Brothers, Powell Co., Boeing Construction equipment  
Zook Brothers, Ravalli Co., triple roll crusher

Construction Permits, approved;

Wickens Brothers, Fergus Co., portable gravel crushers (10 permits)  
American Chemet, East Helena, day nauta blender and appurtenances  
Montana Dept. of Highways, Dawson Co., portable asphalt plant  
William Collins, Inc., Wibaux Co., asphalt concrete drum dryer plant  
Baltrusch Construction, Chouteau Co., hot mix plant  
Ennis Sand & Gravel, Madison Co., crusher  
Zook Brothers, Powell Co., Boeing Construction equipment

c. None in October

4. Variance Status

a. Current

Hearing is scheduled for Anaconda Company SO<sub>2</sub> variance on November 16, 1978.

b. New

None



5. Enforcement Actions

## a. Citation

Empire Sand & Gravel, Billings, 781027-HK-1, Batch plant does not have a permit for operation 5 miles west of Helena, in violation of rule 16-2.14(1)-S1400 (Permits, Construction and Operation of)

Empire Sand and Gravel, Billings, 781026-HK-1, Batch plant does not have a permit for operation 5 miles west of Helena, in violation of rule 16-2.14(1)-S1400 (Permits, Construction and Operation of)

Arness-Anderson Corp., Ashland, 781004-JV-4, Teepee Burner in violation of rules 16-2.14(1) S1400 (Permits, Construction and Operation of) and 16-2.14(1)-S14030 (Wood Waste Burners)

Exxon, Billings, 78-929-JV-1, Coker Stack, Coke Tank in violation of rule 16-2.14(1)-S1440 (Particulate Matter Airborne)

Ravalli County Commissioners, Hamilton, 10-18-78, in violation of S1490, Open burning regulation

## b. Notice of Violation:

Arness-Anderson Corp., Ashland 0-781004-JV-4 Teepee burner ordered to comply with Rule 16-2.14(1)-S14030 (Wood Waste Burners) by November 1, 1978.

## d. Court Actions - None

6. Teepee Burners and Open Burning

Tepee Burners:	No. at start	41
	New starts	0
	Shutdowns	0
	No. at end	

## Open Burning Permits

Kalispell Office	272	Sanders Co.	87
Cascade Co.	13	Yellowstone Co.	41
Lake Co.	65	Rest of State	811
Missoula Co.	58	Total Permits	1347

7. Source Tests Performed:

## a. Agency Source Tests - None

## b. Non Agency Source Tests:

Corette Station, Billings, source tested for SO<sub>2</sub> and NO<sub>x</sub>. Results indicate compliance with average emissions of 285 lbs/hr<sup>x</sup> at a continous load of 165 MW. Allowable emissions were 424 lbs/hr.



Great Western Sugar Company, Billings, boiler stack test performed by Bill Schunter and Pat Brahnan. Results not yet available.

Holly Sugar Company, Sidney, pulp-dryer cyclones test performed by Jerry Levad and Laird Johnson. Tested both by Method 5 and by sampling at angle of null point. Results not yet available.

8. Field Investigations:

ASARCO, East Helena, investigation

Holly Sugar Co., Sidney, toured operation, investigated dust from waste lime operation

MDU, Sidney, Lewis and Clark Power Station, inspection, in compliance

Knife River, Savage Mine, Savage, inspection, in compliance

Big Horn County Memorial Hospital, Hardin, incinerator, in compliance

Buttreys, Miles City, incinerator, in compliance

Safeway, Miles City, incinerator, not presently being used

Dahl Memorial Hospital, Ekalaka, incinerator, not presently being used

Community Memorial Hospital, Sidney, incinerator, in compliance

Holy Rosary Hospital, Miles City, incinerator, not being used

Veterans Administration Hospital, Miles City, incinerator, in compliance

Fallon Memorial Hospital, Baker, incinerator, in compliance

Montana Power Company Byrd Plant, Billings, checking odor complaint and black plume

Keir Road, East Helena, fugitive dust

Mauflower Road, Whitehall, fugitive dust

Lump Gulch Road, Clancy, fugitive dust

South Montana Street Construction, Helena, fugitive dust

Brand S Lumber, Livingston, inspection

Pioneer Concrete, Belgrade, crusher, fugitive dust emissions

Dupuis Lumber, Polson, inspection

9. Complaints:

Champion International, Missoula, burning eyes, investigation

American Asphalt, Kalispell, dust, investigation

Dusty streets, Drummond, investigation

slash burning, Drummond, heavy smoke, poor visibility, investigation

slash burning, Troy, smoke, poor visibility, investigation

Odor, Lockwood, investigation

Exxon, Billings, black cloud, citation

Great Western Sugar, Billings, odor, investigation

Exxon, Billings, white plume and odor, investigation (2 complaints)

Lewis & Clark Co., Helena, dust, investigation

Yellowstone Pine, Big Sky, slash burning, referred to Air Monitoring

pumice mine, Bearmouth Rest Stop, dust, investigation

Individual, Kalispell, odors, sent letter

Mayflower Road, Whitehall, dust, investigation

Lump Gulch Road, Clancy, dust, investigation

Yellowstone Pine, Big Sky, burning, investigation

Montana Sulfur, Billings, odor, investigation

Conoco, Billings, black plume, breakdown at company

Anaconda Co., Anaconda, smoke, company contacted

Anaconda Reduction works, Anaconda, smoke, stagnant weather conditions

Brand S Lumber, Livingston, smoke, inspection

S. Montana Construction, Helena, dust, called City Manager



9. Complaints, continued

Keir Road, East Helena, dust, investigation  
Brand S, Livingston, dustfall, inspection

10. Data Processing Services

a. Ambient Data Summary = not available for September due to changeover in computer systems.

b. Emission Inventory Status:

No new updates received.

c. Prevention of Significant Deterioration

A public hearing was held before the Board of Health on the new rule.  
No action was taken for 21 days to allow comments to be submitted.

d. Modeling:

A new model summary of Cenex plant was prepared for submittal to EPA.  
The Anaconda Co. modeling summary prepared by ERT was received.  
The ASARCO modeling of the new baghouse stack was reviewed.

11. Environmental Impact Statements:

a. Agency Impact Determinations - None

b. Other Agency EIS's Reviewed:

State Lands, MONTCO Mine

12. Status of Studies, Contracts, and Reports

Network review, work continuing, project about 40% complete  
EERC, Billings, final report on ASARCO due April, 1979  
MAPS Project continuing well, newsletter to be sent out in December  
MAAQS, draft EIS due to be published in December

13. Schools and Training

None in October

14. Public Hearings and Meetings

a. Public Hearings Held: Board of Health hearing held October 20-21, 1978, on proposed rules

b. Meetings Attended:

Smoke management, Missoula  
Industry representatives, Helena, regarding rules  
Anaconda Company, Butte, regarding SIP  
Butte Planning Board, Butte, SIP



14. Meetings, Continued

Spring Creek Coal, Helena  
State Lands, Helena, Spring Creek Coal Co.  
Sanitarrians Conference, Bozeman  
U.S. Forest Service, Missoula  
Air Pollution Course, Marana Arizona, regarding slash burning  
EPA representatives, Helena, regarding outputs  
BLM, Helena, statewide air quality monitoring  
Lt. Governor, Helena, PSD rule

c. Intra-staff meetings

Air Quality Bureau staff meetings  
MAPS Staff Meetings regarding AQDHS  
MAAQS Staff meetings

15. Public Information Requests:

Rules 10  
Clean Air Act 3  
Proposed rules - copies sent to mailing list, advisory council and  
Board members

17. Other

none

